

**SUBSTANTIALLY TRANSPARENT, ABRASION-RESISTANT
FILMS CONTAINING SURFACE-TREATED NANOCRYSTALLINE
PARTICLES**

Abstract

A film-forming composition contains surface-treated nanocrystalline particles dispersed in a cross-linkable resin. A substantially transparent, abrasion-resistant film is formed from the film-forming composition. Processes for preparing the film-forming composition and for preparing a substantially transparent, abrasion-resistant film are also included. The surface-treated nanocrystalline particles may be obtained by treating nanocrystalline particles with one or more siloxane species, such as a siloxane star-graft polymer coating.